

WHAT IS CLAIMED IS:

1. A radiographic apparatus comprising a top plate for supporting a subject; an image receiver for receiving a radiographic image of said subject; a moving mechanism for varying the position of said image receiver relative to said top plate and/or posture of said image receiver; a vertical moving mechanism for vertically moving said top plate and said image receiver; and limiting means for limiting the action of said vertical moving mechanism according to the position relative to said top plate and/or posture of said image receiver.

2. A radiographic apparatus according to claim 1, wherein said moving mechanism comprises a guide mechanism for allowing said image receiver to change in position in the horizontal direction relative to said top plate and/or in posture.

3. A radiographic apparatus according to claim 1, wherein said moving mechanism comprises a guide mechanism for guiding the movement of said image receiver in the horizontal direction, between a first position under said top plate and a second position at a side of said top plate.

4. A radiographic apparatus according to claim 3,

wherein the action of said vertical moving mechanism is limited in case said image receiver is not in said first position.

5        5. A radiographic apparatus according to claim 3, wherein in case said image receiver is in second position, the action of said vertical moving mechanism is limited in case said image receiver is in a horizontal posture and the action of said vertical 10 moving mechanism is not limited in case said image receiver is in a vertical posture.

15        6. A radiographic apparatus according to any one of claims 1 to 5, wherein said limiting means comprises a controller for controlling the action of said vertical moving mechanism and a detector for detecting the position of said image receiver relative to said top plate and/or posture of said image receiver, wherein said controller executes control of the action 20 based on the detection result of said detector.

25        7. A radiographic apparatus according to claim 1, further comprising a detector for detecting, while said image receiver is in a horizontal posture at a side of said top plate, an obstacle present below said image receiver; wherein the descending operation of said vertical moving mechanism is limited based on the

detection result of said detector.

8. A radiographic apparatus according to claim 1, further comprising an operation member for operating 5 said vertical moving mechanism, wherein said operation member is provided in a position difficult to operate when said image receiver is in a horizontal posture at a side of said top plate.

10 9. A radiographic apparatus comprising a top plate for supporting a subject; an image receiver for receiving a radiographic image of said subject; a moving mechanism for varying the position of said image receiver relative to said top plate and/or posture of 15 said image receiver; a vertical moving mechanism for vertically moving said top plate and said image receiver; and a detector for detecting, while said image receiver is in a horizontal posture at a side of said top plate, an obstacle present below said image receiver; wherein the descending operation of said vertical moving mechanism is limited based on the 20 detection result of said detector.

10. A radiographic apparatus comprising a top plate for supporting a subject; an image receiver for receiving a radiographic image of said subject; a moving mechanism for varying the position of said image 25

receiver relative to said top plate and/or posture of said image receiver; a vertical moving mechanism for vertically moving said top plate and said image receiver; and an operation member for operating said 5 vertical moving mechanism; wherein said operation member is provided in a position difficult to operate when said image receiver is in a horizontal posture at a side of said top plate.

10 11. A radiographic apparatus according to claim 1, 9 or 10, wherein said radiographic image is X-ray image.

15 12. A radiographic apparatus according to claim 11, further comprising an X-ray generator for generating X-ray.

20 13. A radiographic apparatus according to claim 1, 9 or 10, wherein said image receiver comprises a radiographic film, a photostimulable phosphor sheet or a digital radiographic detector.

25 14. A radiographic apparatus comprising a top plate movable in the horizontal direction, for supporting a subject; an image receiver for receiving a radiographic image of said subject; a moving mechanism for varying the position of said image receiver in the

horizontal direction relative to said top plate and the posture of said image receiver; and limiting means for limiting the movement of said top plate in a predetermined direction in case the posture of said 5 image receiver is not horizontal.

15. A radiographic apparatus according to claim 14, wherein said limiting means comprises a detector for detecting the posture of said image receiver and 10 limits the movement of said top plate based on the detection result of said detector.

16. A radiographic apparatus according to claim 14, wherein said moving mechanism guides the movement 15 of said image receiver in the horizontal direction between a first position below said top plate and a second position at a side of said top plate and also guides switching of said image receiver, in said second position, between a horizontal posture and a vertical 20 posture.

17. A radiographic apparatus according to claim 14, wherein said limiting means limits the movement of said top plate in the lateral direction.

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18. A radiographic apparatus comprising a top plate movable in the horizontal direction, for

supporting a subject; an image receiver for receiving a radiographic image of said subject; a moving mechanism for varying the position of said image receiver in the horizontal direction relative to said top plate and the posture of said image receiver; and limiting means for limiting the change in the posture of said image receiver according to the position of said top plate.

19. A radiographic apparatus according to claim 18, wherein said limiting means comprises a detector for detecting the position of said top plate and limits the change in the posture of said image receiver based on the detection result of said detector.

20. A radiographic apparatus according to claim 18, wherein said moving mechanism guides the movement of said image receiver in the horizontal direction between a first position below said top plate and a second position at a side of said top plate and also guides switching of said image receiver, in said second position, between a horizontal posture and a vertical posture.

21. A radiographic apparatus according to claim 18, wherein said limiting means limits the change of the posture of said image receiver from horizontal to vertical.

22. A radiographic apparatus comprising a top plate movable in the horizontal direction, for supporting a subject; an image receiver for receiving a radiographic image of said subject; a moving mechanism 5 for varying the position of said image receiver in the horizontal direction relative to said top plate and the posture of said image receiver; and limiting means for limiting the movement of said top plate in a predetermined direction in case the posture of said 10 image receiver is not horizontal and said top plate is positioned within a predetermined range.

23. A radiographic apparatus according to claim 22, wherein said limiting means comprises a first 15 detector for detecting the posture of said image receiver and a second detector for detecting the position of said top plate; wherein the movement of said top plate is limited based on the detection results of said first and second detectors.

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24. A radiographic apparatus according to claim 22, wherein said moving mechanism guides the movement of said image receiver in the horizontal direction between a first position below said top plate and a 25 second position at a side of said top plate and also guides switching of said image receiver, in said second position, between a horizontal posture and a vertical

posture.

25. A radiographic apparatus according to claim  
22, wherein said limiting means limits the movement of  
5 said top plate in a the lateral direction.

26. A radiographic apparatus comprising a top  
plate movable in the horizontal direction, for  
supporting a subject; an image receiver for receiving a  
10 radiographic image of said subject; a moving mechanism  
for varying the position of said image receiver in the  
horizontal direction relative to said top plate and the  
posture of said image receiver; and a shock absorbing  
member positioned between said top plate and said image  
15 receiver for avoiding direct collision therebetween, in  
case said top plate is moved in a direction where said  
image receiver is present while the posture of said  
image receiver is not horizontal or in case the posture  
of said image receiver is changed from a horizontal  
20 while said top plate is positioned within a  
predetermined range.

27. A radiographic apparatus comprising a top  
plate movable in the horizontal direction, for  
25 supporting a subject; an image receiver for receiving a  
radiographic image of said subject; and a moving  
mechanism for varying the position of said image

receiver in the horizontal direction relative to said top plate and the posture of said image receiver; wherein said moving mechanism comprises a locking mechanism for preventing said image receiver from moving in the horizontal direction in case the posture of said image receiver is not horizontal.

28. A radiographic apparatus according to any of claims 14 to 27, further comprising a vertical moving mechanism for vertically moving said top plate and said image receiver.

29. A radiographic apparatus according to any of claims 14 to 27, wherein said radiographic image is X-ray image.

30. A radiographic apparatus according to claim 29, further comprising an X-ray generator for generating X-ray.

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31. A radiographic apparatus according to any of claims 14 to 27, wherein said image receiver comprises a radiographic film, a photostimulable phosphor or a digital radiographic detector.